

# FEMA Geospatial Coordination Call

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## *Hurricane Michael*

*October 17, 2018 2:00 PM EST*

*Conference Bridge: 800-320-4330, Passcode:247327#*

***This is the last call for this event***

Adobe Connect:

<https://fema.connectsolutions.com/geospatialcoordinationcall/>


Link to Storymap: <https://arcg.is/0f0Cr8>

## Table of Contents

<b>FEMA Geospatial Coordination Call .....</b>	<b>1</b>
<b>1. Geospatial Coordination Call Info.....</b>	<b>3</b>
<b>2. Situational Overview .....</b>	<b>4</b>
<b>3. FEMA Regional Updates.....</b>	<b>6</b>
<b>4. FEMA JFO Updates .....</b>	<b>7</b>
<b>5. FEMA HQ NRCC Updates .....</b>	<b>8</b>
<b>6. LIFELINE 1: SAFETY &amp; SECURITY .....</b>	<b>12</b>
<b>7. LIFELINE 2: FOOD, WATER, SHELTERING.....</b>	<b>14</b>
<b>8. LIFELINE 3: HEALTH &amp; MEDICAL .....</b>	<b>18</b>
<b>9. LIFELINE 4: ENERGY (POWER, FUEL).....</b>	<b>19</b>
<b>10. LIFELINE 5: COMMUNICATION .....</b>	<b>21</b>
<b>11. LIFELINE 6: Transportation.....</b>	<b>22</b>
<b>12. LIFELINE 7: HAZARDOUS WASTE .....</b>	<b>23</b>
<b>13. ADDITIONAL INFORMATION.....</b>	<b>24</b>

# 1. Geospatial Coordination Call Info

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GeoPlatform Disasters

**FEMA GEOSPATIAL COORDINATION CALL**

***Hurricane Michael***

**FEMA GEOSPATIAL COORDINATION CALL**

**The last call for this effort will be October 17th.**

Conference Bridge: 800-320-4330, Passcode: 247327#

Adobe Connect: <https://fema.connectsolutions.com/geospatialcoordinationcall/>

Coordination Call Story Map: <https://arcg.is/0f0Cr8>

Updated on October 17, 2018

FEMA Hurricane Incident Journal:

<https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5>

FEMA GIS Portal:

<http://fema.maps.arcgis.com/>

FEMA GIS Portal:

<https://fema.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6bd1d3fa669343eb87bf7a8a15f028c0>

## 2. Situational Overview

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**October 17, 2018**

**Tropical Cyclone Michael**

- **Lifeline Priorities**

- **Safety & Security – (FL / GA / AL / NC / SC)**
  - US&R:
    - Pensacola, FL: Red IST, IST cache, FSARCG
    - 14 Human Remains (HR) dog teams in FL with Type I US&R
    - US&R Teams completed: 165 evacuations; 4 rescues, 42 evacuations (152 overall), 108 assists; 26,440 Shelter in place checks; 3,829 Animal Assists and 39,952 Structural Assessments. USCG completed more than 350 assists/ rescues and 1 animal rescue; searches remain ongoing in East Bay, Gulf, and Jackson counties
- **Food, Water and Shelter – (FL / GA / AL / NC / SC)**
  - Shelters / Occupants: FL: 21 / 2,350; GA: 3 / 203 (ESF 6 as of 5:50 a.m. EDT)
  - FL Water Utilities:
    - 46 active boil water advisories
    - 49 water utilities partially operational
    - 72 nonoperational
    - 77 with unknown status
  - GA Water Utilities:
    - 38 (+4) active boil water advisories
    - 28 water utilities partially operational
    - 63 nonoperational
    - 486 status unknown
  - GA:
    - Received 39,000 (+25k) tarps, shipping 27,000 more by October 17
- **Health and Medical – (FL / GA / AL / NC / SC)**
  - FL:
    - Hospitals: 4 closed in 3 counties, 3 partially open (ER only), 4 on full generator power, 3 on partial generator power; 2 dialysis centers closed
    - Nursing Homes: 7 (-15) evacuated and closed, 8 (-9) on generator power, 1 re-entry complete
    - Assisted Living Facilities: 14 evacuated/closed, 9 on full generator power, 8 on partial generator power, 1 re-entry in progress
    - 1 confirmed fatality
  - GA:
    - Hospitals: All have commercial power
      - 3 confirmed fatalities
  - Media reporting 27 Michael related fatalities across impact area
- **Energy – (FL / GA / AL / NC / SC)**

- Power outages:
  - FL – 135k (-11k)
  - GA – 56k (-27k) (SLB as of 5:30 a.m. EDT)
  - USACE:
    - 3 generator installs complete
    - 8 generator installs in progress
    - 18 assessments complete
- **Transportation – (FL / GA / AL / NC / SC)**
  - Roads / Highways:
    - FL:
      - Damage assessments ongoing
    - GA:
      - All interstates and National Highway System routes and bridges open; 21 road closures
  - Port Conditions:
    - Port of Panama City Open (daylight operations only) due to destroyed ranges; anticipated date to re-open October 27
  - Railway:
    - FL:
      - Two CSX subdivisions have suspended service. Three short lines remain suspended with partial restoration estimated for October 19
- 
- **Hazardous Waste – (FL / GA / AL / NC / SC)**
  - FL:
    - 16 wastewater facilities are non-operational, 28 partially operational, 22 (-2) with unknown status; of 18 chemical facilities, 16 (+4) are operational and 2 (-1) are shut down
  - GA:
    - 9 wastewater facilities are non-operational; 22 are partially operational; 110 with unknown status; of 15 chemical facilities, 12 are operational and 3 are shut down
- **Communications – (FL / GA / AL / NC / SC)**
  - No new updates

### 3. FEMA Regional Updates

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**October 17, 2018**

**Regional Updates:**

- **FEMA R IV:**
  - RRCC at Level II (day shift)
  - RWC at Enhanced Watch (night shift)
  - LNOs deployed to FL, AL, and GA
  - IMAT-2 deployed to FL EOC
  - <http://arcg.is/18PPe0>
- **State Response:**
  - **Florida:**
    - Incident level journal for FL being built out at:
      - <http://arcg.is/em5f0>
    - FL EOC at Full Activation:
      - Emergency Declaration FEMA-3405-EM-FL approved October 9
      - Expedited Major Disaster Declaration FEMA-4399-DR-FL approved October 11
  - **Georgia:**
    - GA EOC at Full Activation:
      - Emergency Declaration FEMA-3406-EM-GA approved on October 10
      - Expedited Major Disaster Declaration FEMA-4400-DR-GA approved October 14
  - **Virginia:**
    - VA EOC at Monitoring, Governor declared State of Emergency, EMAC support
  - **Tennessee:**
    - TN EOC at Monitoring, EMAC support
  - If you need access to State SAR Field Data use this form:
    - <https://arcg.is/1zefHn>

**October 16, 2018**

**Regional Updates:**

- **FEMA R IV:**
  - RRCC at Level I, day shift only
  - RWC at Enhanced Watch, night shift only
  - LNOs deployed to FL, AL and GA
  - IMAT-2 deployed to FL EOC
  - Link for the map journal created and being used in Region 4 RRCC:
    - <http://arcg.is/18PPe0>
- **State Response:**
  - **Alabama:**
    - AL EOC at Partial Activation:
      - Emergency Declaration FEMA-3407-EM approved on October 12
  - **Florida:**

- Incident level journal for FL being built out at:
  - <http://arcg.is/em5f0>
- Emergency Declaration FEMA-3405-EM-FL approved October 9
  - Expedited Major Disaster Declaration FEMA-4399-DR-FL approved October 11
- **Georgia:**
  - Emergency Declaration FEMA-3406-EM-GA approved on October 10
  - Expedited Major Disaster Declaration FEMA-4400-DR-GA approved October 14
  -
- If you need access to State SAR Field Data use this form:
  - <https://arcg.is/1zefHn>

## 4. FEMA JFO Updates

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### **Operations:**

- No updates

**Updated on October 9, 2018**

## 5. FEMA HQ NRCC Updates

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### FEMA GIS Links:

- FEMA GIS Portal:
  - <https://fema.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6bd1d3fa669343eb87bf7a8a15f028c0>
- FEMA Hurricane Incident Journal:
  - <https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5>
- *Disasters GeoPlatform* :
  - <https://disasters.geoplatform.gov/wa/home/>
  - *Notes: This data is available to the public, and categorized by lifeline for users to browse.*
- Joint Search and Rescue Activity Story Map Series:
  - <https://fema.maps.arcgis.com/apps/MapSeries/index.html?appid=7477ed4cea264a78b89cb6f8c7971911>

### Other GIS Links:

- *NASA Disasters GIS Portal:*
  - <https://maps.disasters.nasa.gov/arcgis/home/group.html?id=e675b5aa304c42dea82b58821d19c761>
- *Voyager Imagery Indexing System:*
  - [http://ec2-54-193-25-181.us-west-1.compute.amazonaws.com/navigo/search?sort=score&stats=true&stats.field=fid\\_acquisition\\_date&fq=fs\\_usgs\\_dataset\\_fullname:201809\\_Hurricane\\_Florence&isp=D165438F7476&view=card&sortdir=desc](http://ec2-54-193-25-181.us-west-1.compute.amazonaws.com/navigo/search?sort=score&stats=true&stats.field=fid_acquisition_date&fq=fs_usgs_dataset_fullname:201809_Hurricane_Florence&isp=D165438F7476&view=card&sortdir=desc)
- *NAPSG Situational Awareness Viewer:*
  - <https://www.napsgfoundation.org/resources/napsg-situational-awareness-viewer/>
- *NAPSG 2018 Hurricane Crowdsourced Photos:*
  - <https://www.arcgis.com/apps/StoryMapCrowdsource/index.html?appid=69b95886cf8e49a3a349c9d550174a91>

### DAILY UPDATES

October 17, 2018

#### I. General:

- - NRCC at Level III, day shift only with select ESFs and NRCS Gold Team
  - National IMAT East deployed to FL EOC
  - Region II IMAT deployed to AL EOC, re-deploying to FL EOC today
  - Region V IMAT deployed to GA EOC

#### II. Production and Modeling:

-



- Visual damage assessments have begun in impacted areas using FEMA AGOL Web Mapping Application to support FEMA Recovery
  - Working to publish damage assessments publicly
  - Link to data to be posted on 10/17
- Damage Assessment Web  
App: <http://fema.maps.arcgis.com/apps/webappviewer/index.html?id=90910a2ddcf74ec5ad317b8e2f359302>

### III. Remote Sensing:

- Coordination Call:
  - Daily at **2:30 PM EST**
  - Adobe Connect: <https://fema.connectsolutions.com/rscoordinationcall>
  - Conference Bridge: 800-320-4330, Passcode: 247327#

### IV. Crowdsourcing:

- The FEMA Crowdsourcing Unit is coordinating crowdsourcing efforts with various Digital Volunteer Networks (DVNs) and also collaborating with the private sector and other partners to access crowdsourced data from existing crowdsourcing platforms to provide situational awareness at the FEMA National Response Coordination Center (NRCC). These crowdsourcing resources are organized by FEMA's Lifelines and are intended to fill any gaps and provide redundancy to the official response efforts by leveraging nontraditional sources of information and digital volunteers. See this [Google Doc](#) for the most updated version of the table. See this [Google Slide Deck](#) for updates from DVNs (*Google Doc and Slides accessible in Microsoft Edge web browser*). Crowdsourcing Resources will be provided by lifelines in this Story Map for future calls as they have more significant activity.
  - **Daily Crowdsourcing Coordination Call at 1700 (5:00 pm EST) for 1 hour**
    - Zoom Webinar Link: <https://zoom.us/j/2228882929>
    - Call-In Number: +16699006833, 2228882929#
    - Slack Channel: <https://femacrowdsourcing.slack.com>
    - Email: [FEMA-Crowdsourcing@fema.dhs.gov](mailto:FEMA-Crowdsourcing@fema.dhs.gov)
- **Updates:**
  - **Social Listening**
    - The Social Listening sections are curated by External Affairs. Volume of conversation is similar to yesterday. There has been an increase in FEMA discussion which is becoming increasingly complex as survivors navigate the application and assistance process. There continues to be a high level of discussion about PODs. Individuals in Southern Georgia are concerned that their story is not being told and worry that it could affect the flow of resources to the area. A growing number of people are discussing medical needs, particularly insulin needs.
    - For any questions or comments regarding the social listening sections of this report, please email [FEMA-NRCC-EAUL@fema.dhs.gov](mailto:FEMA-NRCC-EAUL@fema.dhs.gov)
  - **Public Perception**
    - **FEMA Conversation:**
      - Survivors are wondering if their homes would qualify as ["unlivable" if there is no sewer/water](#) system in their area. Some who have minimal structural damage to their homes but are without access to water or sewer have applied for assistance because they feel their home is uninhabitable. However, one

woman feels she was denied assistance because the application asks if you have been without utilities or sewer for 5 days or more, and [when she applied it had been four days](#).

- Some evacuees (both FL and GA) are saying they have been told by FEMA they [need to return to their homes](#) to complete the application process. This has been frustrating for those who are looking for assistance more quickly.
- Survivors are telling each other to [register with FEMA](#) as soon as possible so they can get refunds for expenditures during the recovery process including, hotels, tarps, etc.
- There continues to be confusion over TSA and lodging reimbursement. Some survivors are saying that hotels in the area are accepting check-in from individuals who have [“pending approvals” from FEMA](#)
- There is growing discussion about the [Blue Roof Project](#). Discussion of [FEMA and blue roof](#) tend to go hand-in-hand.
- **Public Sentiment:**
  - As power restoration improves in many areas those who have yet to have power restored are growing impatient. Each [update on power](#) results in a cascade of comments from survivors sharing that they still don’t have power and wondering when crews will make it to their neighborhoods.
  - Many Georgia residents are asking that Albany State University push back its homecoming celebrations. There is concern that the week-long celebration will bring additional people to the area and cause [further strain on already limited resources](#).
  - In a Georgia press briefing this morning a local official stated that much of Atlanta doesn’t have any idea of what is going on in Southern Georgia. He stressed the need to [tell the story](#) of what is happening in their region to make sure resources continue to flow into the area.

## V. USAR:

- FEMA US&R Data has been pushed for 15-October.
- NOTE: Change to how data is presented in the map portion of the dashboard. At small scale (zoomed out) the data is a heat map to show coverage area. At large scale (zoomed in) the data switches to the point view. This is because there are now around 30,000 points and the system simply can’t draw all of them. There may be additional optimizations in how the data is viewed in the near future.
- **Data Source Notes:**
  - This data contains the data produced by the US&R teams under federal missions. It does not include the Florida US&R teams that are operating as state assets.
  - Public Feature Service:
    - <http://fema.maps.arcgis.com/home/item.html?id=4d7f2b52371b43609647ed2447642626>
  - Public Web Map:
    - <http://fema.maps.arcgis.com/home/item.html?id=fddccae6aebf49aebfedbc96ab725fb4>

- Public Dashboard:
    - <http://fema.maps.arcgis.com/apps/opsdashboard/index.html#/bd137a8e6c2644b790ca4f37cd84a4d3>
  - **10/16/18 AM Update**
    - Both FEMA USAR and IAFC / SUSAR have made a big push of data from yesterday's Operational Period, IAFC / SUSAR Dashboard is growing every minute.
    - SAR Field Data Collection <https://www.arcgis.com/apps/MapSeries/index.html?appid=61952ebf539f4bf1941a9e24e0bc277b&entry=2>
      - FEMA (w/ human interaction redacted) **29,350 waypoints**
    - Dashboard: <http://fema.maps.arcgis.com/apps/opsdashboard/index.html#/bd137a8e6c2644b790ca4f37cd84a4d3>
      - SUSAR (all waypoints) **35,802 waypoints** and counting, LATF2, NOLA2, FLTF4, FLTF5 are currently actively adding points.
    - Dashboard: <https://iafc.maps.arcgis.com/apps/opsdashboard/index.html#/e904e84ffff344aeb4dfc2599d944afd>
    - Remote Sensing <https://www.arcgis.com/apps/MapSeries/index.html?appid=61952ebf539f4bf1941a9e24e0bc277b&entry=6>
      - Justin Adams has posted more drone aerial imagery and Hangar360 panoramic images
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## 6. LIFELINE 1: SAFETY & SECURITY

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### KEY CONCERNS

#### Public Works and Engineering

- Infrastructure protection and emergency repair
- Infrastructure restoration
- Engineering services and construction management
- Emergency contracting support for life-saving and life-sustaining services

#### Firefighting

- Coordination of Federal firefighting activities
- Support to wildland, rural, and urban firefighting operations

#### Search and Rescue

- Life-saving assistance
- Search and rescue operations

#### Public Safety and Security

- Facility and resource security
- Security planning and technical resource assistance
- Public safety and security support
- Support to access, traffic, and crowd control

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### AGENCIES

- Department of Defense (U.S. Army Corps of Engineers)
- Department of Agriculture (U.S. Forest Service)
- Department of Homeland Security (FEMA)
- Department of Justice

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### DATA LINKS

- NASA Disasters GIS Portal:
  - <https://maps.disasters.nasa.gov/arcgis/home/group.html?id=e675b5aa304c42dea82b58821d19c761>
- NAPSG Situational Awareness Viewer:
  - <https://www.napsgfoundation.org/resources/napsg-situational-awareness-viewer/>
- NAPSG 2018 Hurricane Crowdsourced Photos:
  - <https://www.arcgis.com/apps/StoryMapCrowdsource/index.html?appid=69b95886cf8e49a3a349c9d550174a91>
- Civil Air Patrol Imagery Uploader:
  - <https://communities.geoplatform.gov/disasters/civil-air-patrol-cap-browser/>

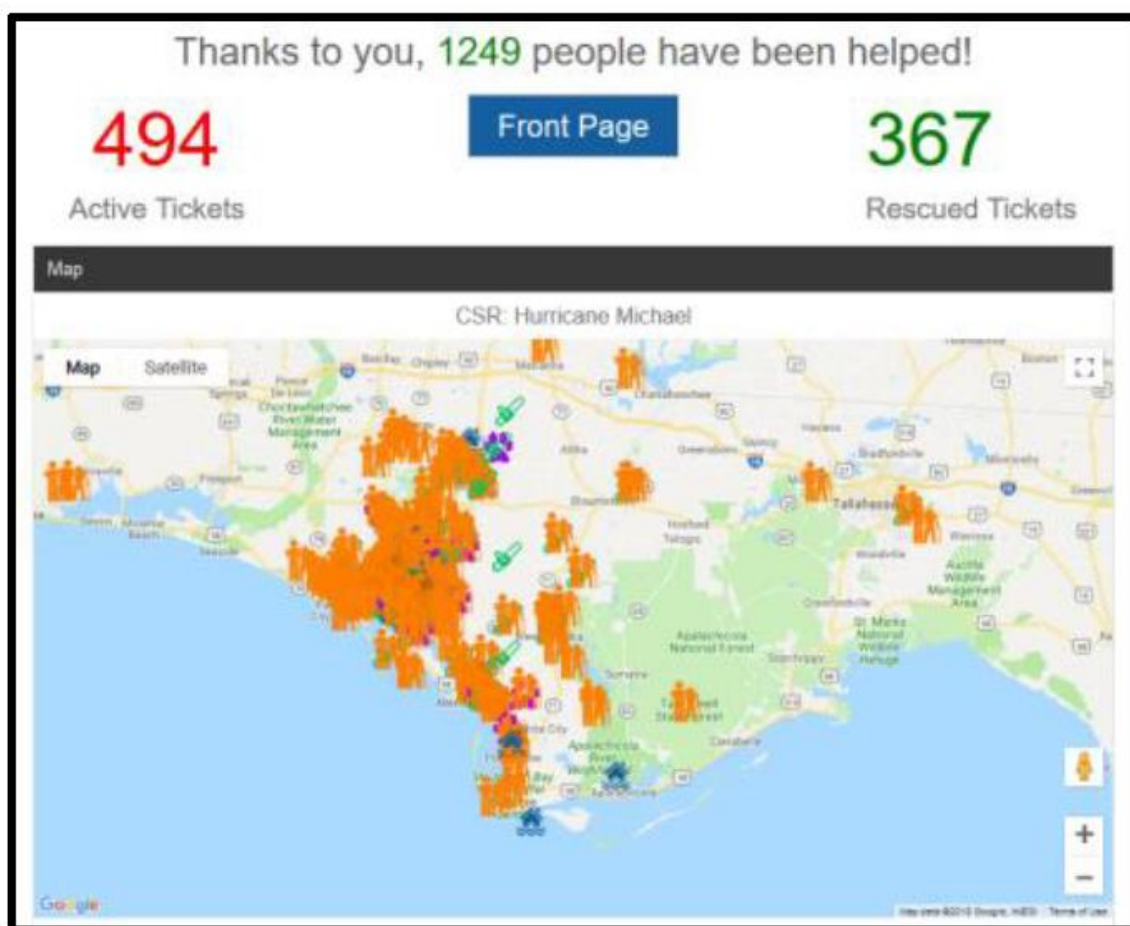
## DAILY UPDATES

### October 16, 2018

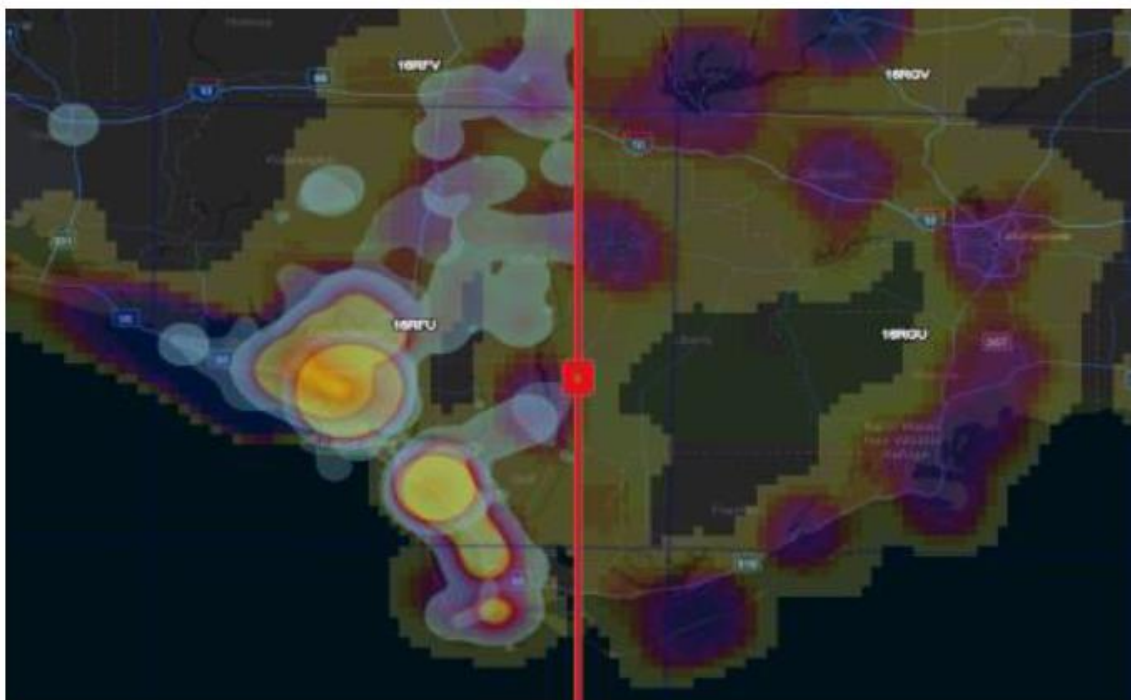
- Google:
  - Google Crisis Response Map:
    - <http://google.org/crisismap/google.com/2018-michael>

### October 14, 2018

- FEMA Crowdsourcing
  - [CrowdSource Rescue Platform](#) shows 495 active tickets (-5) and 367 rescued tickets (+11), which helped 1,249 people (+72). The map allows you to filter for tickets related to animal rescues, water rescues, wellness checks, and debris removal. Pet and water rescues are concentrated in Panama City.



- [Joint SAR Activity Story Map Series](#) shows SAR activity in Panama City, Upper Grand Lagoon, Long Point, Mexico Beach, Highland View, Oak Grove, Port St. Joe, Chason, Altha, Betts, Magnolia Bluffs, Eastpoint, and St George Island County Park (no significant change since the last report). The Hazard Exposure Swipe map (right tab on top) indicates where highest community exposure from surge, wind, and flooding overlaid with State & Local SAR activity, which you can swipe on and off.



- **Social Listening**
  - Florida
    - All access and checkpoints leading into Panama City have been lifted. However, county officials warn that there continue to be [limited resources and support](#) in the area, and there continue to be curfews, so individuals should take that into account when making the decision to return. Officials recommend those who are able remain evacuated and wait for conditions to improve.

## 7. LIFELINE 2: FOOD, WATER, SHELTERING

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### FOOD, WATER, SHELTERING

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#### KEY CONCERNS

##### Mass Care, Emergency Assistance, Temporary Housing and Human Services

- Mass care
- Emergency assistance
- Disaster housing
- Human services

##### Logistics Management and Resource Support

- Comprehensive, national incident logistics planning, management, and sustainment capability
- Resource support (facility space, office equipment and supplies, contracting services, etc.)

##### Public Works and Engineering

- Infrastructure protection and emergency repair
  - Infrastructure restoration
  - Engineering services and construction management
  - Emergency contracting support for life-saving and life-sustaining services
- 

#### AGENCIES

- Department of Homeland Security (FEMA)
  - General Services Administration and Department of Homeland Security (FEMA)
  - Department of Defense (U.S. Army Corps of Engineers)
- 

#### DAILY UPDATES

October 14, 2018

- **FEMA Crowdsourcing**
  - [CEDR Digital Corps Shelters Crowdsourced Map](https://arcg.is/0f0Cr8) (curated by ~20 volunteers) is a comprehensive map of 147 shelters in

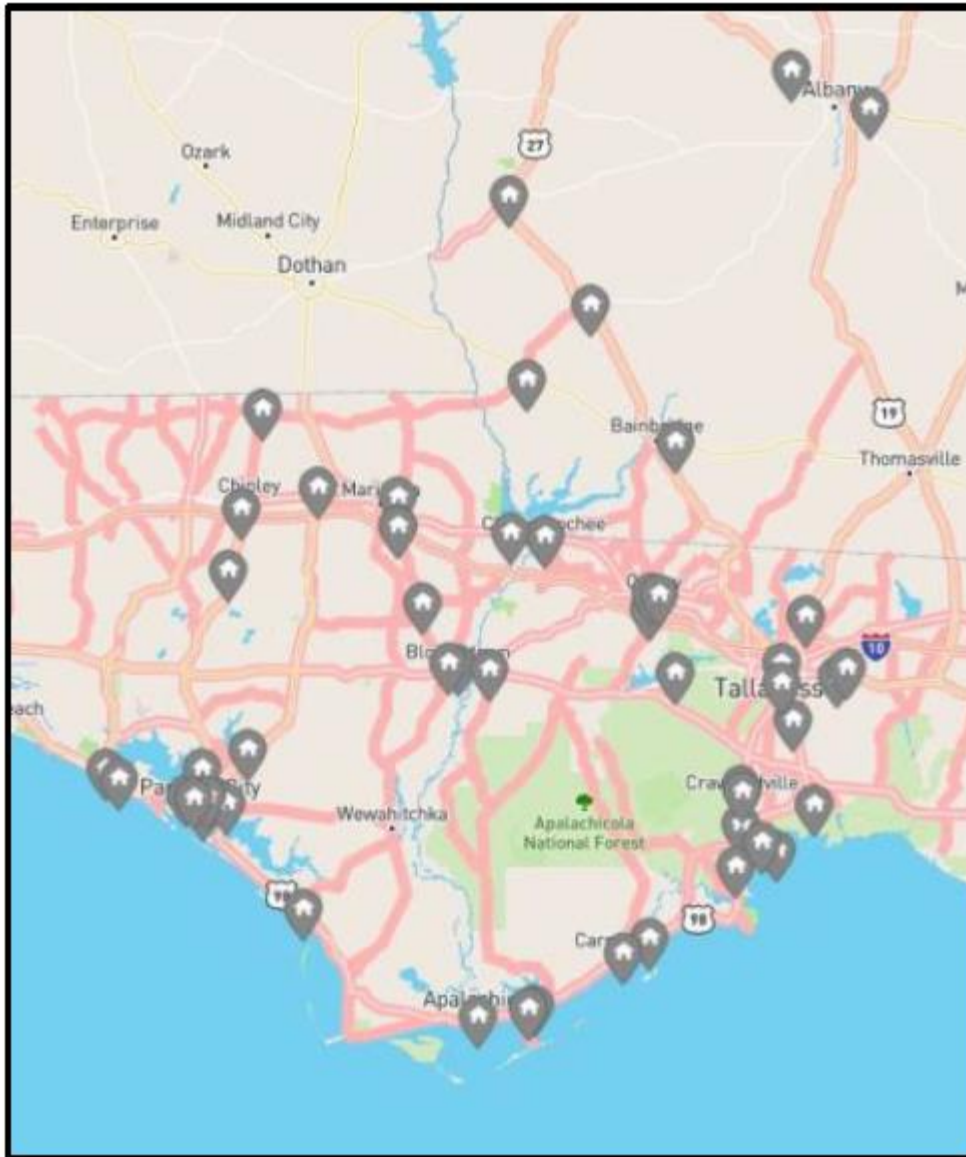


FL (52), GA (72), AL (7), NC (15), SC (1).



- 48 Open shelters: FL (26), GA (4), AL (5), NC (12), SC (1)
  - 3 shelters in FL open to county residents only
  - 1 shelter in FL is full
- 95 Closed shelters: FL (22), GA (64), AL (2), NC (3), SC (0)
- (No changes in shelter status since the last report.)
- The [Code for America Points of Distribution \(POD\) Map](#) is a comprehensive map of PODs in Florida and Southwest Georgia. A POD is where the public goes to pick up food, water and other emergency supplies following a disaster.
  - 49 PODs in FL
  - 6 PODs in GA





- [Airbnb Open Homes](#) is activated for [Hurricane Michael](#) starting on October 8 to 29, 2018 allowing Airbnb hosts to donate their homes to displaced neighbors that need free emergency shelter and to relief workers deployed to help. There are still 306 Airbnb Open Homes in Florida, Georgia, and South Carolina currently available at \$0 per night.
- Social Listening
  - Florida
    - There continue to be requests for resources in [northern parts of Bay County](#). Residents are concerned that not enough supplies are being routed to that area.
    - Some residents have reported [Piggly Wiggly and Dollar General](#) are open in that area but are only able to take cash.

## 8. LIFELINE 3: HEALTH & MEDICAL

### KEY CONCERNS

#### Public Health and Medical Services

- Public health
- Medical
- Mental health services
- Mass fatality management

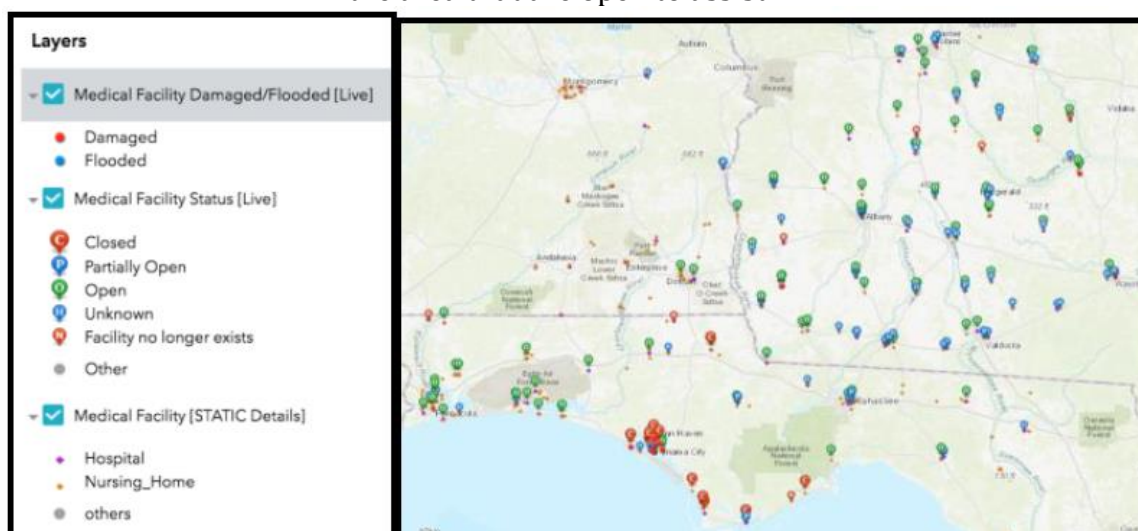
### AGENCIES

- Department of Health and Human Services

### DAILY UPDATES

October 14, 2018

- **FEMA Crowdsourcing**
  - [Standby Task Force \(SBTF\) Medical Facility Status Map](#) (curated by 33 volunteers) shows updates on 202 (no change) of 391 medical facilities mapped so far in FL, AL, and GA
    - 93 open; 21 partially open; 23 closed; 11 no longer exist; 54 unknown
    - 22 not damaged; 20 (+1) damaged; 1 (-1) flooded; 152 unknown structural damage
    - 44 (+1) using generators; 17 on the grid; 3 no power
  - Social Listening
    - Florida
      - A growing number of people are discussing [medical and prescription needs](#). In particular, there has been an increase in mentions of people running low on insulin ([example 1](#), [example 2](#)).
      - Some dialysis patients in Bay County have [resorted to calling EMS](#) for assistance. The County is asking that patients not do this, instead they have provided information on two dialysis centers in the area that are open to assist.



## 9. LIFELINE 4: ENERGY (POWER, FUEL)

### KEY CONCERNS

#### Energy

- Energy infrastructure assessment, repair, and restoration
- Energy industry utilities coordination
- Energy forecast

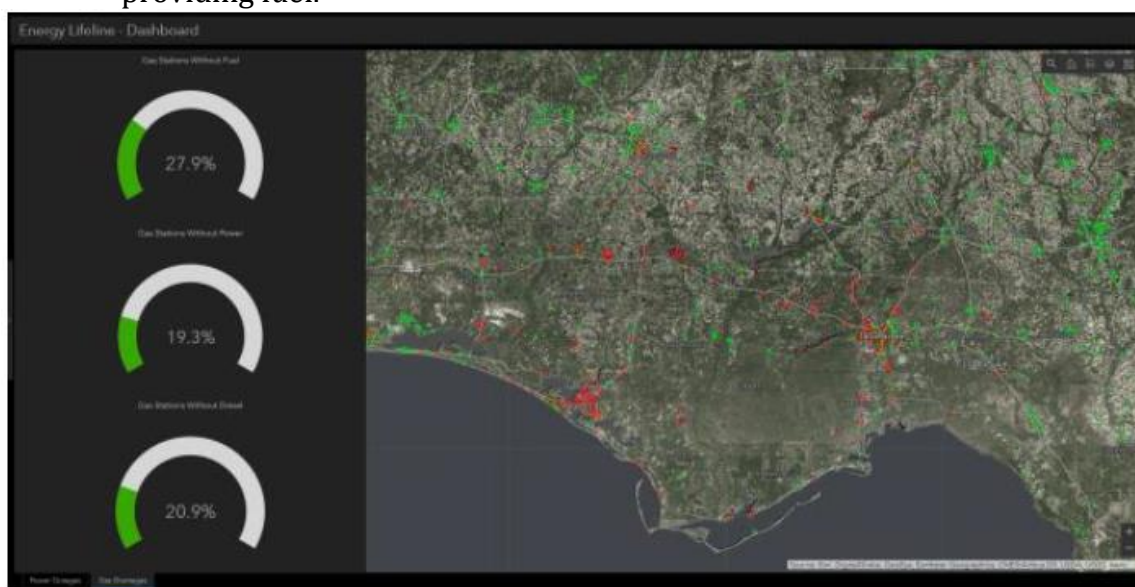
### AGENCIES

- Department of Energy

### DAILY UPDATES

October 14, 2018

- **FEMA Crowdsourcing**
  - [GasBuddy Fuel Availability & Station Outages Dashboard](#) shows gas stations in FL without fuel.
    - Panama City 60% (no change)
    - Tallahassee-Thomasville 37% (+1%)
    - Mobile-Pensacola 13% (no change)
  - The [FEMA Energy Lifeline Dashboard](#) shows live GasBuddy data indicating gas stations that have fuel & power, no fuel & power, no fuel, or no power. Slight increase in gas stations in Panama City with no power, fuel, or diesel. The Department of Energy analyzes the GasBuddy data to inform decisions on providing fuel.



- **Social Listening**
  - Florida
    - As of 0522 EST, [Gulf Power updates](#) that they have restored power to 55,000 customers as of yesterday. This morning, more than 5,000 employees are continuing to support the mission.

- As of 1006 EST, Duke Energy shared updated [time estimates](#) for power restoration in impacted counties and states 4,500 workers are supporting:
  - Bay and Gulf County: Due to the extensive damage, some parts of this zone area is inaccessible and may require extensive reconstruction to the electrical system. No time estimate can be provided yet.
  - Wakulla County: Sunday, October 14th by 11:59 p.m.
  - Franklin County (Carabelle, Lanark Village, & Panacea): Monday, October 1 by 11:59 p.m.
  - Franklin County (St. George Island, Eastpoint, Apalachicola, Dog Island, and Alligator Pointe): Wednesday, October 17th by 11:59 p.m.
  - Jefferson and Leon County: Saturday, October 13th by 11:59 p.m.
- Georgia
  - As of 2119 EST, an individual tweets that they are looking to [send 5500-7000 generators to the Atlanta Dispatch Center](#) for people impacted by Hurricane Michael.
- Carolinas
  - Individuals in the Carolinas are getting increasingly anxious about power restoration times and have asked how electric companies navigate repairing the outages. ([Example 1](#), [Example 2](#), [Example 3](#))

# 10. LIFELINE 5: COMMUNICATION

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## COMMUNICATION

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### KEY CONCERNS

#### Communications

- Coordination with telecommunications and information technology industries
  - Restoration and repair of telecommunications infrastructure
  - Protection, restoration, and sustainment of national cyber and information technology resources
  - Oversight of communications within the Federal incident management and response structures
- 

### AGENCIES

- Department of Homeland Security (National Communications System)
- 

### DAILY UPDATES

October 14, 2018

- **FEMA Crowdsourcing**
  - [Humanity Road](#) collaborates with Facebook to develop [Facebook Disaster Maps](#) to visualize the reduction of users by location and status of network coverage for 2G, 3G, and 4G services. [Facebook Data & Methodology](#): When people use the Facebook mobile application with Location Services turned on, Facebook collects data on which towers are providing the connection and where the device is located. This location data does not connect the device to a person's name or any other identifying information. For each cell tower in the disaster-affected region, Humanity Road estimates the size of the coverage area based on the locations of devices that have connected with it. Then they compare this estimate with an aggregation of three months of historical data to identify changes in the coverage area caused by the disaster.
  - Social Listening
    - Florida
      - As of 0215 EST, survivors report they continue to have issues with Verizon service in Panama City. Some are having issues locating the [mobile hotspots](#) that have been provided.

# 11. LIFELINE 6: Transportation

## KEY CONCERNS

### Transportation

- Aviation/airspace management and control
- Transportation safety
- Restoration and recovery of transportation infrastructure
- Movement restrictions
- Damage and impact assessment

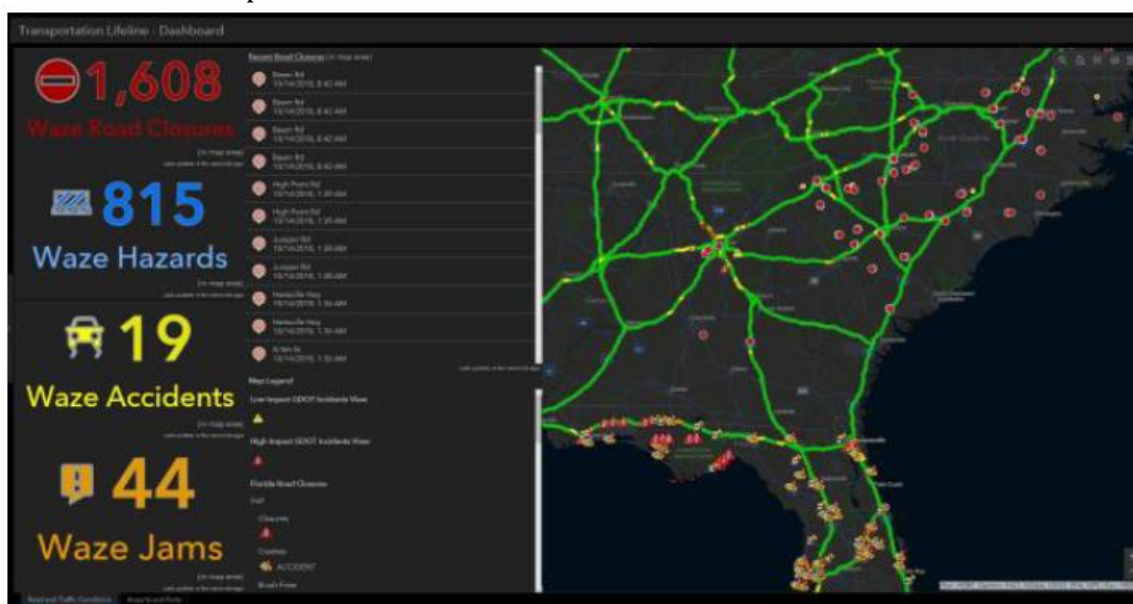
## AGENCIES

- Department of Transportation

## DAILY UPDATES

October 14, 2018

- **FEMA Crowdsourcing**
  - Live [Waze](#) data of road closures, hazards, accidents, and jams are integrated into the [FEMA Transportation Lifeline Dashboard](#).
    - An increase of 449 road closures, 589 hazards, and 37 jams since the last report.



- [Google Maps Traffic](#) provides real-time traffic conditions based on passive collection of mobile phone location and speed. You can pull in the live traffic data with this [Google Traffic Layer](#).



## 12. LIFELINE 7: HAZARDOUS WASTE

### KEY CONCERNS

#### Oil and Hazardous Materials Response

- Oil and hazardous materials (chemical, biological, radiological, etc.) response
- Environmental short- and long-term cleanup

#### Agriculture and Natural Resources

- Nutrition assistance
- Animal and plant disease and pest response
- Food safety and security
- Natural and cultural resources and historic properties protection
- Safety and well-being of household pets

### AGENCIES

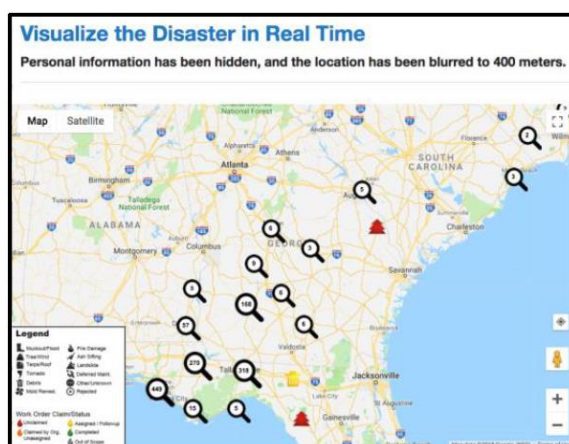
- Environmental Protection Agency
- Department of Agriculture

### DAILY UPDATES

October 14, 2018

#### • FEMA Crowdsourcing

- [Crisis Cleanup](#) (click on Hurricane Michael in incident list) contains the status of 1,438 work orders (+99) related to cleaning up trees and other debris, tarps for roofs, muckouts, and other recovery activities.
- Social Listening
  - Florida
    - Bay County reports that [garbage pick-up](#) will begin again in Panama City starting today.
  - Georgia
    - [USACE reports](#) that the first emergency generator in their Emergency Power Mission in Georgia was installed Saturday night and is supporting critical wastewater infrastructure in Albany with emergency temp power while the larger commercial grid continues to be restored.



## 13. ADDITIONAL INFORMATION

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### FEMA Geospatial Coordination Calls

**When?** Daily @ 2:00 PM (Eastern)

**Where?** Conference Bridge: 800-320-4330, Passcode: 247327#

Adobe Connect: <https://fema.connectsolutions.com/geospatialcoordinationcall/>

**>> Daily coordination call notes will be posted at the following location:**

<https://disasters.geoplatform.gov/publicdata/NationalDisasters/HurricaneMichael/Documents/GeospatialCoordinationCallNotes/>

**>> Register for the FEMA Daily Operations Briefing here:**

[https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic\\_id=USDHSFEMA\\_153](https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic_id=USDHSFEMA_153)

**\* Please forward the details of these calls to other interested parties, including state and local representatives.**

**>> To be added to the Geospatial Coordination Calls During Disasters mailing list:**

[https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic\\_id=USDHSFEMA\\_1351](https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic_id=USDHSFEMA_1351)

**>> Questions?**

contact us at: [FEMA-MDWG@fema.dhs.gov](mailto:FEMA-MDWG@fema.dhs.gov)